Problem statement : IoT Based Industry-Specific intelligent fire management system

Domain : Internet of Things

Assignment 2: Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

By,

Kamil Ayisha.A-720819106049

Python code:

```
import random

temp=random.randint(1,100)

humid=random.randint(1,100

) print(temp)

print(humid)
```

```
if(temp>30 & humid<50):
print("Alarm detected")
elif(temp>30 & humid>50):
print("Alarm detected")
elif(temp<30 & humid<50):
print("Alarm not detected")
elif(temp<30 & humid>50):
print("Alaram not detected")
```

OUTPUT:

i) 30

19

Alarm not detected.

ii) 57

97

Alarm detected.

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main.py

```
import random
temp=random.randint(1,100)
humid=random.randint(1,100)
print(temp)
print(humid)
if(temp>30 & humid<50):
    print("Alarm detected")
elif(temp>30 & humid>50):
    print("Alarm detected")
elif(temp<30 & humid<50):
    print("Alarm not detected")
elif(temp<30 & humid>50):
    print("Alaram not detected")

```

input

```
19
30
Alarm not detected


...Program finished with exit code 0
Press ENTER to exit console.
```

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main.py

```
import random
temp=random.randint(1,100)
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elif(temp<30 & humid>50):
    print("Alaram not detected")

```

input

```
57
97
Alarm detected


...Program finished with exit code 0
Press ENTER to exit console.
```